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TITLE : NOZZLE FOR ZINC DIE CASTING

ABSTRACT : PURPOSE: To obtain a nozzle for zinc die casting excellent in heat check resistance and having a long service life by using a steel having a specified compsn. constituted of C, Si, Mn, Cr, Co, Mo, W and Fe as stock.

CONSTITUTION: This is a nozzle for zinc die casting constituted, as stock, by using a steel contg., by weight, 0.1 to 0.5% C, 0.1 to 2.0% Si, 0.1 to 2.0% Mn, 6.0 to 20.0% Cr, 5.0 to 20.0% Co and one or two kinds of $\leq 5.0\%$ Mo and $\leq 10.0\%$ W so as to satisfy 5.0 to 17.0% 2Mo+W, furthermore contg., at need, one or more kinds among 0.3 to 2.0% Ni, $\leq 5.0\%$ V, $\leq 1.5\%$ Ti, $\leq 2.0\%$ Nb+Ta, $\leq 2.0\%$ Zr, $\leq 2.0\%$ Hf, 0.03 to 0.2% N, 0.005 to 0.1% Al and 0.3 to 2.0% Cu and/or one or more kinds among 0.0001 to 0.2% Mg, 0.0005 to 1.0% rare earth metals, 0.0002 to 0.2% Ca and 0.0001 to 0.05% B and the balance Fe with impurities. The nozzle has good heat check resistance and erosion resistance to zinc, so that the elongation of its service life is permitted.

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